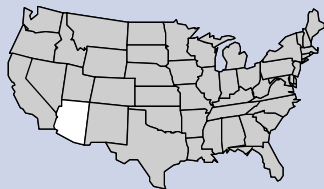


Economic Investments in Arizona



Office of Building Technology, State and Community Programs (BTS)

BTS works with partners in the private and non-profit sectors and in state and local governments to make the nation's residential and commercial building stock more energy-efficient, comfortable, affordable, and sustainable.

The mission of DOE's Office of Energy Efficiency and Renewable Energy is to promote a strong economy, cleaner environment, and more secure future through the development and deployment of energy efficient and renewable energy technologies.



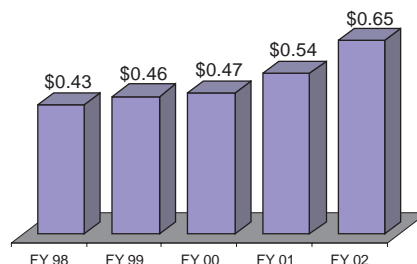
BTS invested a total of \$3.6 million in Arizona in Fiscal Years 2001 and 2002



The Arizona Department of Commerce Energy Office (AZDOC)

in **Phoenix**, through the State Energy Program (SEP) formula grant, received \$537,000 in FY 2001 and \$651,000 in FY 2002. Through SEP, AZDOC works on for a variety of activities including improving State Building Energy Codes, providing building audits, and implementing energy efficiency and renewable energy public education and awareness campaigns.

Arizona State Energy Program
(millions of dollars)



As part of the Building America program, the Industrialized Housing Partnership (IHP) provided technical assistance in FY 2002 valued at \$340,000 to **Beazer Homes, Trend Homes, Hacienda Builders, Continental Homes, and Pulte Homes** in **Phoenix**, where 2,199 houses have been completed. IHP projects emphasize applied research and development with HUD code home manufacturers, Habitat for Humanity, and American Lung Association Affiliates.



The **AZDOC** in **Phoenix**, through the SEP Special Projects Office of Codes and Standards received \$238,000 in FY 2000 and \$100,000 in FY 2001 to conserve energy by successfully implementing the new International Energy Conservation Code and the locally-adopted Sustainable Energy Standard, where applicable.



Through the Building America program, the Building Science Consortium (BSC) provided **Pulte Homes Southwest Division** in **Tucson** with technical assistance in FY 2000 valued at \$300,000 to create what one residential expert calls "the best production house in the world," which won the 2001 National Association of Home Builders' Energy Value Award. By using advanced insulation techniques, highly efficient equipment and windows, and right-sized heating and cooling systems, the homes use half the energy for heating and cooling at virtually no increase in construction costs. This whole building/systems engineering approach has been used by Pulte Homes in the planning and design of Arroyo Ridge (2 prototype houses), Retreat at the Bluffs (153 houses), and at 13 other locations in **Tucson**, where 635 houses of a planned buildout out 1250 are completed. In **Phoenix**, **Pulte Homes** has completed 300 of a planned 405 homes at four locations, and in **Chandler**, 607 houses have been completed at four additional locations. Since more insulation and efficient windows are used, the size of the heating and cooling equipment is reduced meaning no added cost to the builder, better value for the buyer, reduced electric load for the utility, and improved affordability.

Economic Investments in Arizona



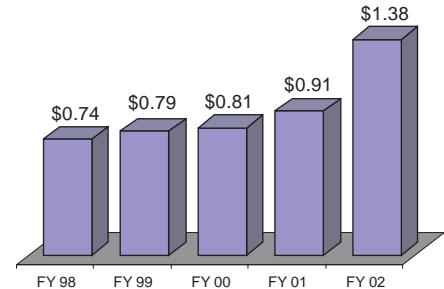
Office of Building Technology, State and Community Programs (BTS)

America's buildings — our homes, workplaces, and institutional buildings — consume roughly \$230 billion worth of energy each year. The average family spends about \$1,300 on home energy. Energy for buildings has environmental as well as economic implications: its production, distribution, and use affect our environment and health through the emission of carbon dioxide, sulfur dioxide and nitrogen oxides.



The **Weatherization Assistance Program**, through AZDOC and local service providers (e.g., community action agencies), is working to increase energy efficiency and reduce the burden of energy costs to low-income Arizona residents, especially households with elderly residents, individuals with disabilities, and families with children. In FY 2001, Federal funding combined with leveraged state and local resources resulted in the weatherization of approximately 794 homes. In FY 2002, Arizona was awarded \$1,375,478 in weatherization funding.

Arizona Weatherization
(millions of dollars)



Havasupai Nation, Inter-Tribal Council of Arizona, Inc., Rebuild Arizona, Tolani Lake Elementary School Academy, and Yavapai-Apache Nation received technical assistance from the Rebuild America program valued at a combined total of \$100,000 in FY 2002. This program accelerates energy efficiency improvements in existing commercial, institutional and multifamily residential buildings through private-public partnerships created at the community level. It also assists with business planning, technical product development, marketing, workshops, and training for its partners.



Through the Building America program, the Integrated Building and Construction Solutions (IBACOS) Consortium provided partners **RGC, Civano LLC, Contravest, TJ Bednar, and American Lung Association** with technical assistance in FY 2002 valued at \$60,000 in building the **Civano Development** in **Tucson** where over 3400 homes are planned. The Consortium for Advanced Residential Buildings (CARB) provided **Del Webb Corporation's Sun City Grand Community** in **Surprise** technical assistance in FY 2002 valued at \$10,000. Building America is an industry-driven program helping to stimulate major changes in how residential buildings are designed, built, and delivered to the consumer. The program applies systems engineering in order to accelerate the adoption of building processes and technical innovations, which result in energy efficient, environmentally sensitive, affordable, and adaptable residences on a community-wide scale.



The Building America program helped **John Wesley Miller Companies** in FY 2000 to evaluate the performance of 99 single-family homes equipped with cutting-edge solar technologies that provide electricity, hot water, and heating. This solar subdivision known as **Armory Park del Sol** in historic downtown **Tucson** features historic looking homes with modern amenities that provide energy savings of up to 40% while generating hot water and electricity from solar panels.